

# Converting Colors

XYZ(31.1453, 22.6089, 5.3449)

Have a look what the booklet for  
XYZ(31.1453, 22.6089, 5.3449)  
contains.

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# Color

**XYZ(31.2495, 22.6762,  
5.3147)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	D1632E
RGB	209, 99, 46
RGB Percent	82%, 39%, 18%
CMY	0.1804, 0.6117, 0.8196
CMYK	0.00, 0.53, 0.78, 0.18
HSL	20°, 64%, 50%
HSV	20°, 78%, 82%
XYZ	31.2495, 22.6762, 5.3147
YIQ	125.8480, 82.5730, 6.8370

# Conversions

## Conversions Part 2

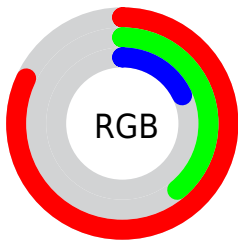
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	209, 125, 46
Decimal	13722414
CIE <sub>Lab</sub>	54.74, 40.19, 48.87
CIE <sub>LCh</sub>	55, 63.274, 50.564
Yxy	22.6762, 0.5275, 0.3828
Android (android.graphics.Color)	4291912494 (0xFFD1632E)
YUV	125.8480, -39.3651, 72.9243
Hunter-Lab	47.6195, 33.8034, 26.7165

# Details

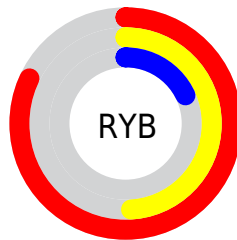
The XYZ color **31.2495, 22.6762, 5.3147** is a dark color, and the websafe version is hex **CC6633**. The color can be described as dark washed orange. A complement of this color would be **24.5229, 28.9595, 64.6185**, and the grayscale version is **19.8901, 20.9260, 22.7884**.

A 20% lighter version of the original color is **54.5338, 44.5427, 16.5498**, and **13.2697, 8.4098, 0.9239** is the 20% darker color. If you saturate the color by 10%, you get **29.7118, 20.1076, 3.2406**, and if you desaturate by 10%, it is **33.2220, 25.7942, 8.5225**.

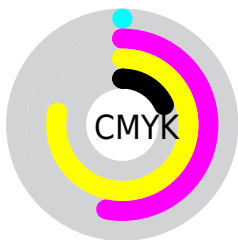
# Distribution



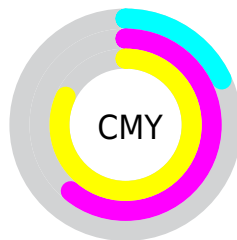
- Red (82%)
- Green (39%)
- Blue (18%)



- Red (82%)
- Yellow (49%)
- Blue (18%)



- Cyan (0%)
- Magenta (53%)
- Yellow (78%)
- Black (18%)




- Cyan (18%)
- Magenta (61%)
- Yellow (82%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.2495, 22.6762, 5.3147 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 31.2495, 22.6762, 5.3147 by changing the saturation by 10% instead.





 31.2495, 22.6762,  
5.3147


 31.2495, 22.6762,  
5.3147


299.4925,  
266.0575, 161.8767


 20.9417, 14.3546,  
2.3711


 61.0058, 47.8611,  
16.9434

 13.1936, 8.3677,  
0.7707


 81.1851, 65.4932,  
26.4656


 7.6399, 4.3311,  
0.0000


 105.3855, 86.9976,  
39.0178

 3.9153, 1.8605,  
0.0000

 133.9724,  
112.7586, 55.0184

 1.6543, 0.5244,  
0.0000

 167.3112,  
143.1607, 74.8861

 0.4274, 0.0000,  
0.0000

 205.7673,

 0.0000, 0.0000,

178.5883, 99.0393

0.0000

249.7059,  
219.4258, 127.8967

■ 31.2495, 22.6762,  
5.3147

■ 31.2495, 22.6762,  
5.3147

■ 29.7118, 20.1076,  
3.2406

■ 33.2220, 25.7942,  
8.5225

■ 28.5579, 18.0455,  
2.0986

■ 35.6646, 29.4906,  
13.0020

■ 28.3593, 17.6851,  
1.9189

■ 38.6104, 33.7964,  
18.8723

■ 42.0884, 38.7393,  
26.2383

■ 46.1256, 44.3449,  
35.1947

■ 50.7467, 50.6375,  
45.8284

■ 55.9750, 57.6399,  
58.2199

■ 61.8325, 65.3741,  
72.4445

■ 68.3399, 73.8609,  
88.5730

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



36.7154, 22.6762, 13.5027



31.2495, 22.6762, 5.3147



23.8286, 22.6762, 2.8731

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



31.2495, 22.6762, 5.3147



10.8412, 22.6762, 18.9109



26.6182, 22.6762, 80.9780

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



31.2495, 22.6762, 5.3147



24.5229, 28.9595, 64.6185

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



19.4272, 22.6762, 85.3106



31.2495, 22.6762, 5.3147



11.2727, 22.6762, 40.7980

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



31.2495, 22.6762, 5.3147



12.7619, 22.6762, 7.4408



14.1038, 22.6762, 67.8514



33.6662, 22.6762, 58.0296



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



31.2495, 22.6762, 5.3147



19.1854, 22.6762, 2.9046



14.1038, 22.6762, 67.8514



24.1078, 22.6762, 85.0107

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



31.2500, 22.6774, 5.3151



75.6518, 74.0777, 62.7448



33.3900, 17.9568, 33.7764



15.6411, 15.1018, 12.1700



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



31.2500, 22.6774, 5.3151



45.2645, 29.1676, 3.7074



42.9310, 46.0395, 9.2088



12.1182, 12.4271, 12.3720



17.5657, 11.0645, 1.2098



1.0539, 0.7621, 0.0915



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



24.5229, 28.9595, 64.6185



33.9845, 38.7892, 100.3036



15.2119, 10.3373, 61.5148



11.8208, 12.7319, 15.0781



13.0649, 14.7764, 39.3560



0.8010, 0.9672, 2.2240



# Previews

## White Background



This preview shows how the XYZ color 31.2495, 22.6762, 5.3147 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 31.2495, 22.6762, 5.3147 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 31.2495, 22.6762, 5.3147**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.2495, 22.6762, 5.3147.



This preview shows how white text looks on a background with the XYZ color 31.2495, 22.6762,



# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

31.2495, 22.6762, 5.3147

### Protanopia

20.7949, 22.8894, 6.9365

### Deuteranopia

23.2005, 22.8065, 5.0130



## Tritanopia

33.0786, 22.5977, 14.6749

# Trichromacy



## Original Color

31.2495, 22.6762, 5.3147

## Protanomaly

23.6985, 22.1159, 6.2686

## Deuteranomaly

25.7017, 22.4746, 5.0812

## Tritanomaly

32.1185, 22.4652, 10.2328

# Monochromacy



## Original Color

31.2495, 22.6762, 5.3147

## Achromatopsia

19.8309, 20.8637, 22.7206

## Achromatomaly

22.1134, 20.4218, 14.0856

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.2495, 22.6762, 5.3147 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(209, 99, 46)` looks like.

```
.text, #text, p{  
    color:rgb(209, 99, 46)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(209, 99, 46) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(209, 99, 46) }
```

## Border

The CSS property to change the border of an element to XYZ 31.2495, 22.6762, 5.3147 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(209, 99, 46) }
```



If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(209, 99, 46) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(209, 99, 46)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(209, 99, 46); -webkit-box-  
shadow:4px 4px 4px 4px rgb(209, 99, 46);  
box-shadow:4px 4px 4px 4px rgb(209, 99,  
46) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.2495, 22.6762, 5.3147 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(209, 99, 46) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(209, 99,  
46) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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